

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/16444

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ H03F1/32, H03F3/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ H03F1/32, H03F3/68

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

| | | | |
|----------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Toroku Koho | 1996-2004 | Kokai Jitsuyo Shinan Koho | 1971-2004 |
| Jitsuyo Shinan Koho | 1922-1996 | Toroku Jitsuyo Shinan Koho | 1994-2004 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | WO 01/39367 A1 (TELEFONAKTIEBOLAGET LM ERICSSON), 31 May, 2001 (31.05.01), Page 11, line 12 to page 12, line 25; Fig. 3 & EP 1104093 A1 & AU 1749201 A & JP 15-516013 A | 1-11 |
| Y | JP 2002-124840 A (Mitsubishi Electric Corp.), 26 April, 2002 (26.04.02), Par. Nos. [0049] to [0054]; Figs. 5 to 8 (Family: none) | 1-11 |
| Y | JP 11-145734 A (Harris Corp.), 28 May, 1999 (28.05.99), Par. Nos. [0007] to [0008]; Figs. 1 to 2 & EP 899870 A1 & US 6054895 A1 & CA 2244640 A1 | 1-11 |

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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| "P" document published prior to the international filing date but later than the priority date claimed | |

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|--|---|
| Date of the actual completion of the international search 24 March, 2004 (24.03.04) | Date of mailing of the international search report 13 April, 2004 (13.04.04) |
| Name and mailing address of the ISA/ Japanese Patent Office | Authorized officer |
| Facsimile No. | Telephone No. |

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| P, A | JP 2003-37451 A (TRW Inc.), 07 February, 2003 (07.02.03), Full text; all drawings & EP 1271765 A2 & US 2002/186078 A1 & CA 2389489 A1 | 1-11 |